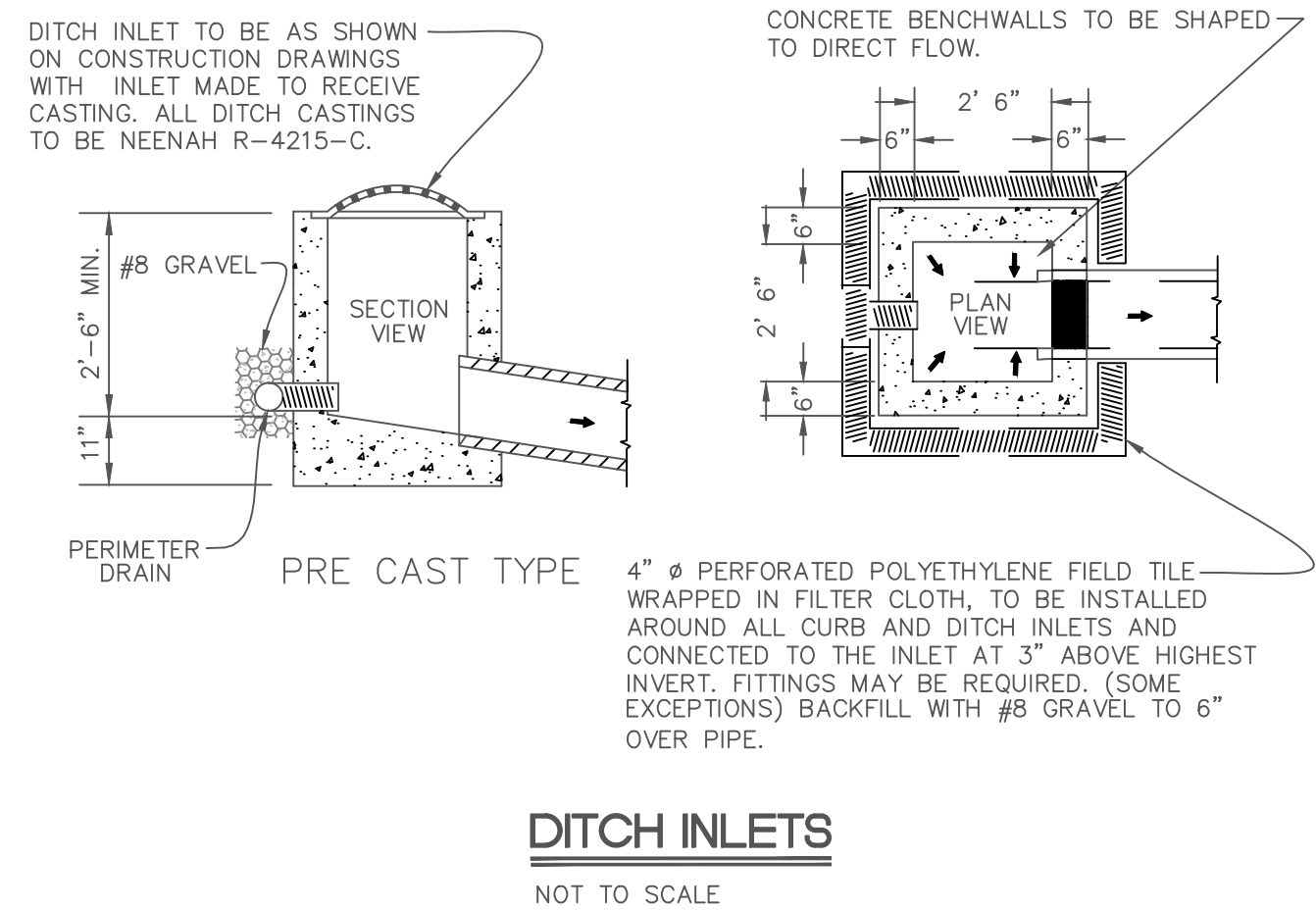
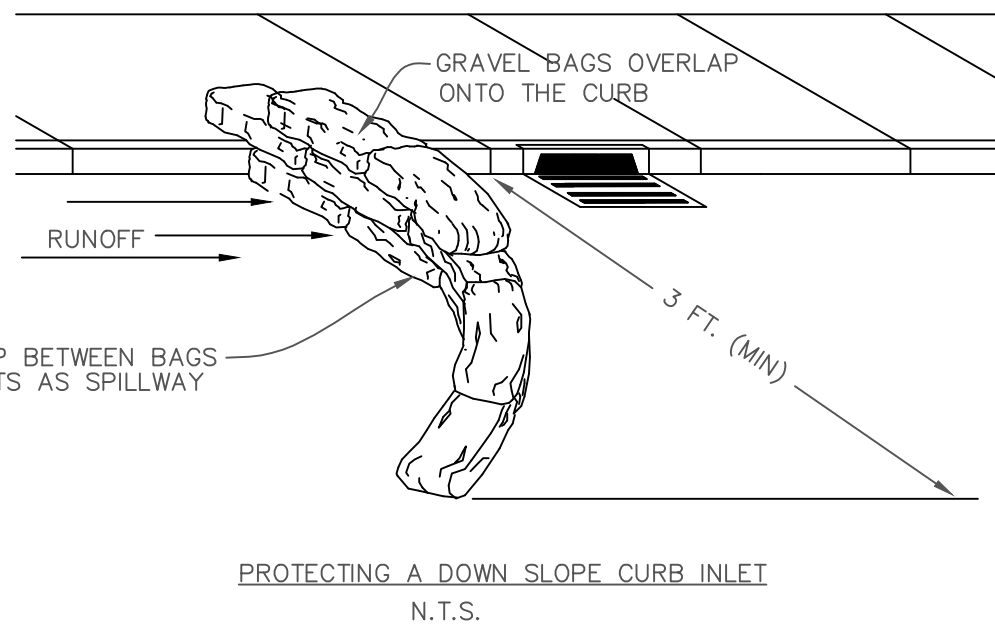
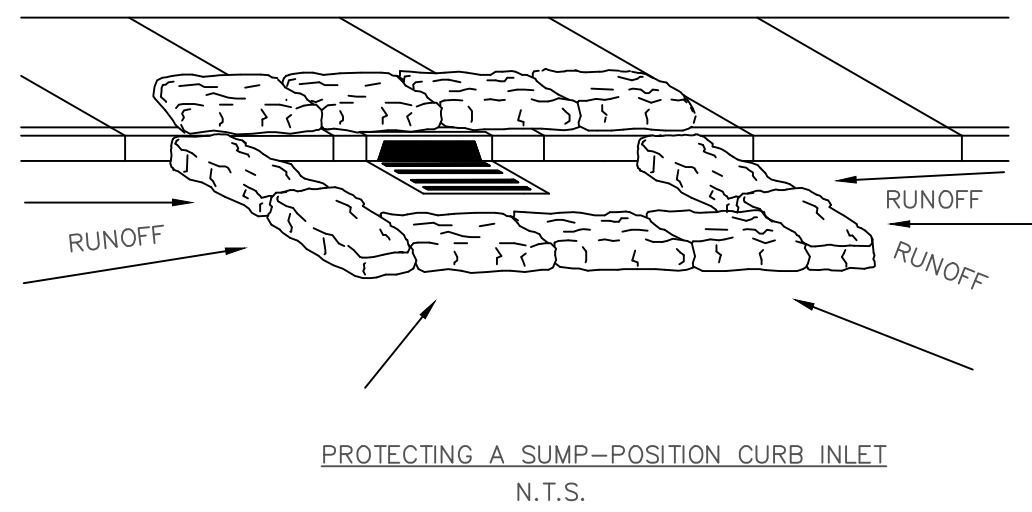


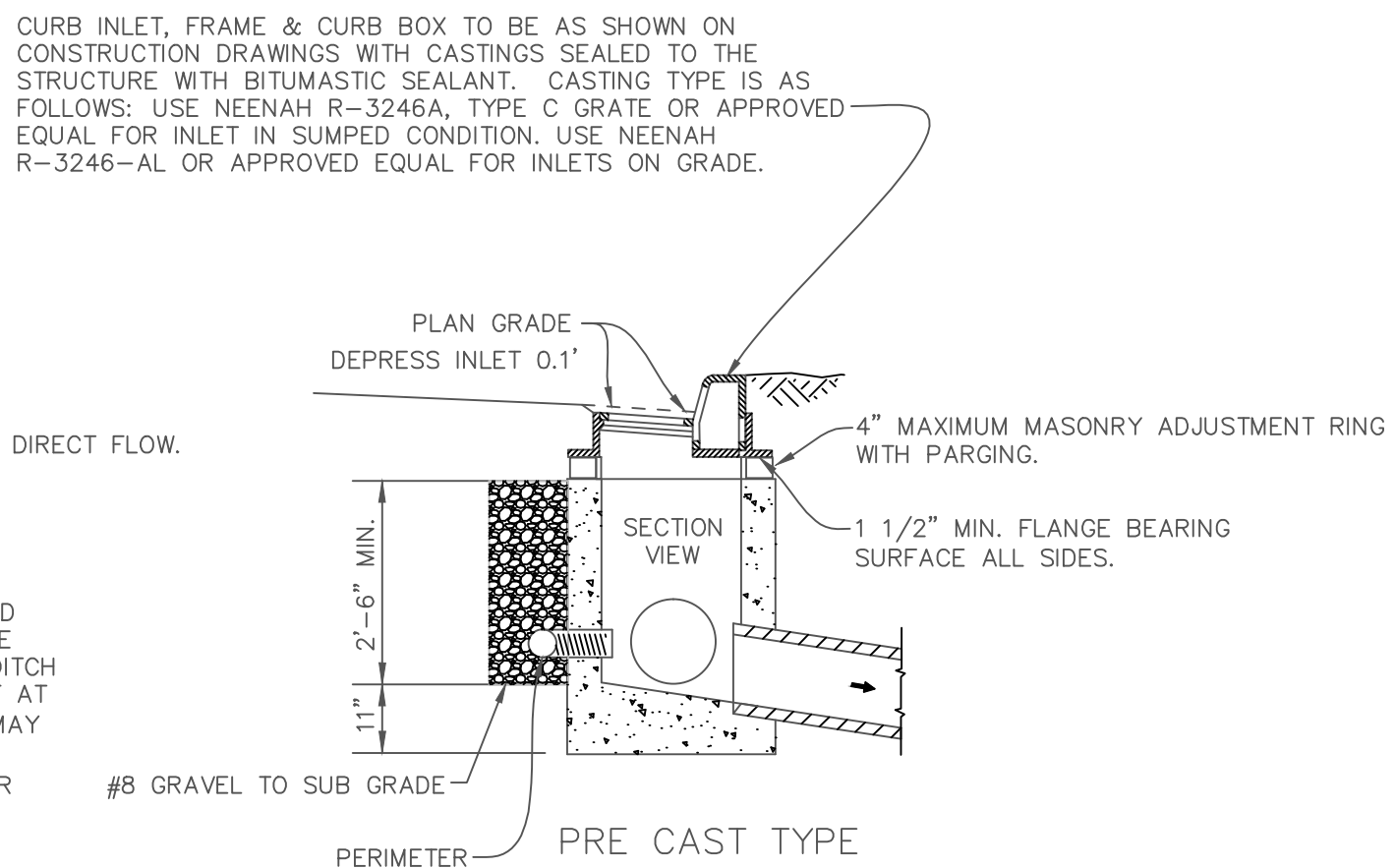
CURB INLETS
NOT TO SCALE



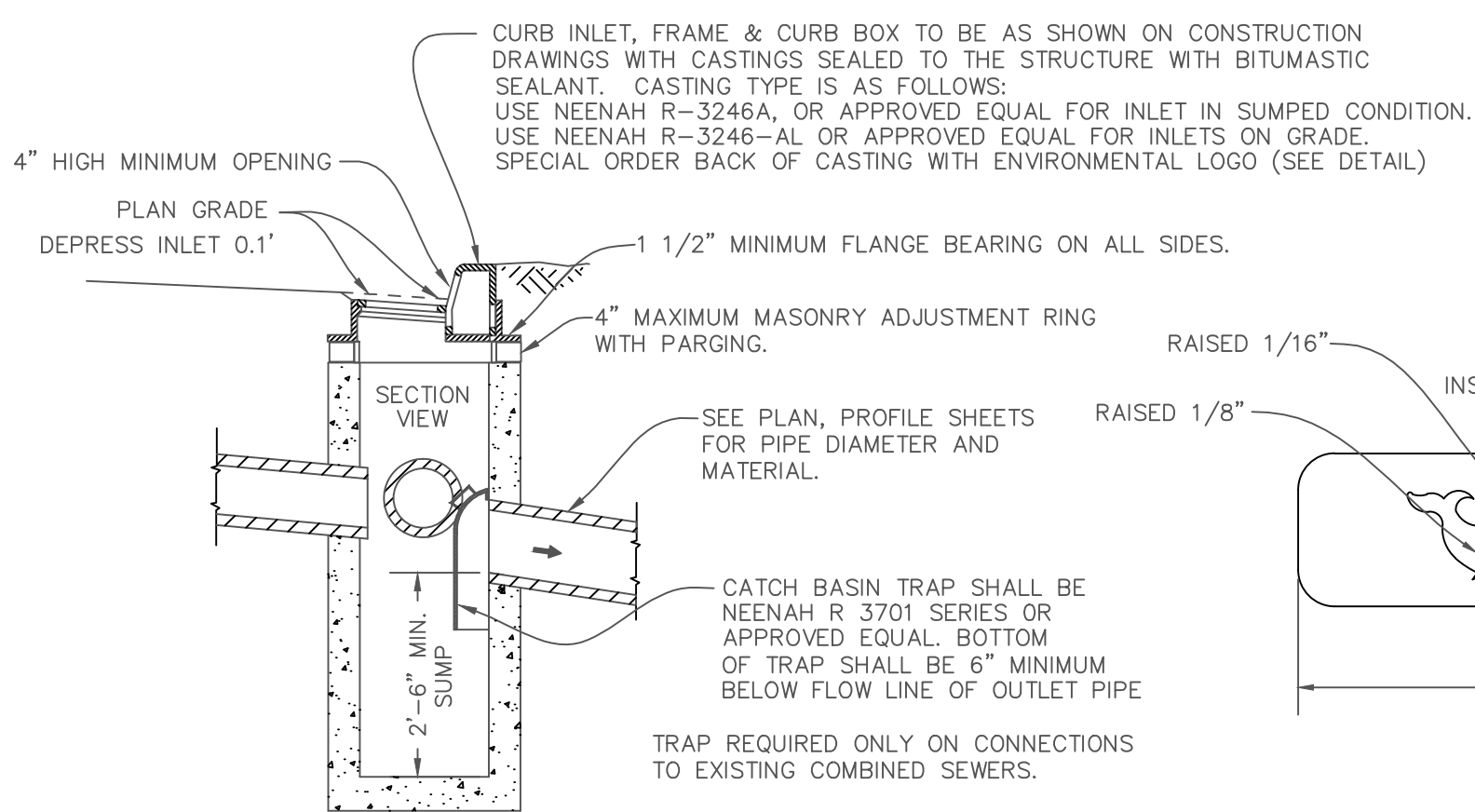
DITCH INLETS
NOT TO SCALE



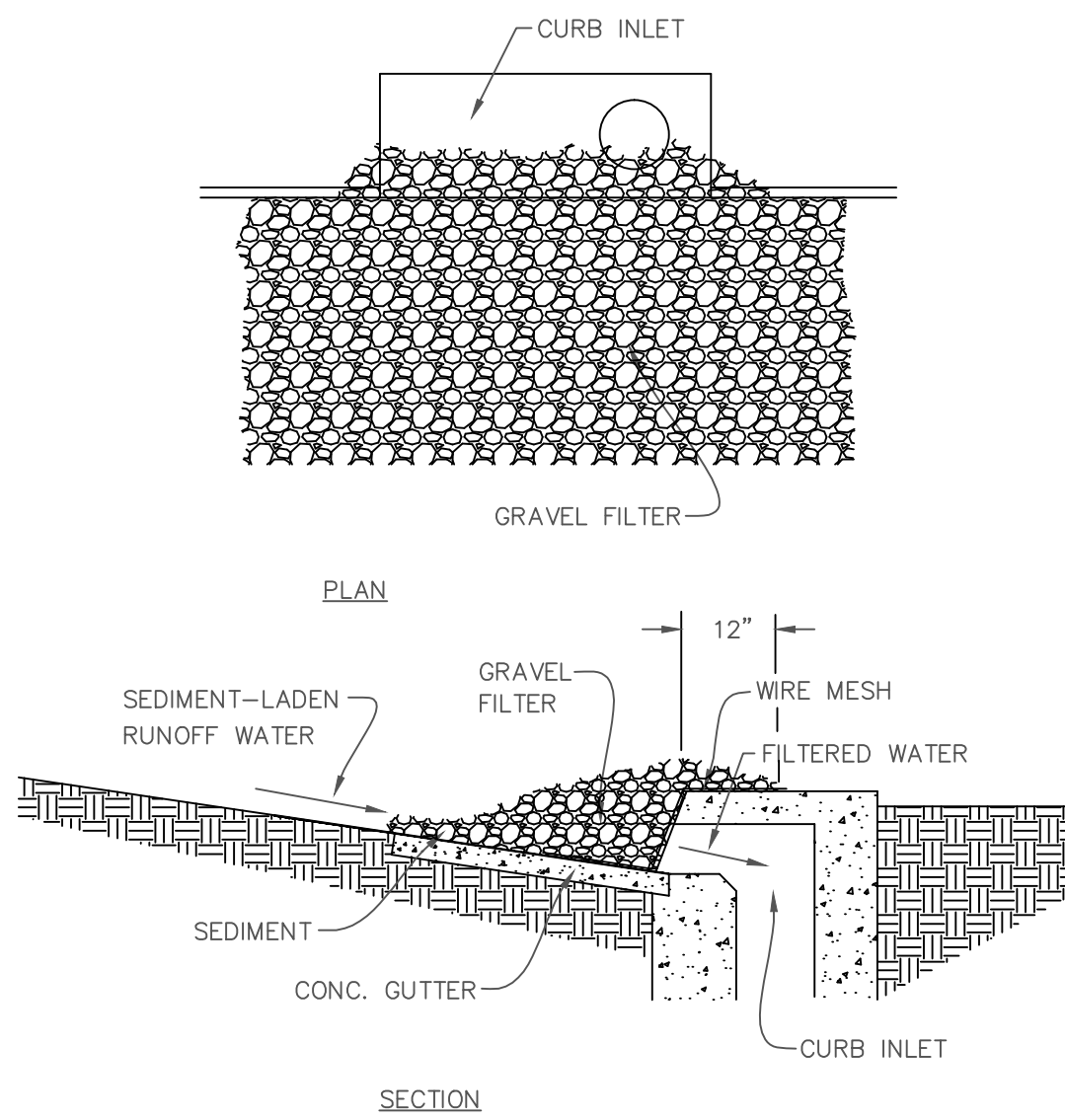
GRAVEL FILTER BAGS
CURB INLET PROTECTION



PRE CAST TYPE



CATCH BASIN
NOT TO SCALE



GRAVEL FILTER
CURB INLET PROTECTION

EROSION CONTROL - SEEDING RECOMMENDATIONS

THIS TABLE PROVIDES SEVERAL SEEDING OPTIONS. ADDITIONAL SEED SPECIES AND MIXTURES ARE AVAILABLE COMMERCIALY. WHEN SELECTING A MIXTURE, CONSIDER SITE CONDITIONS, INCLUDING SOIL PROPERTIES (E.G. SOIL PH AND DRAINAGE), SLOPE ASPECT AND THE TOLERANCE OF EACH SPECIES TO SHADE AND DROUGHT.

SEED SPECIES AND MIXTURES	RATE PER ACRE	OPTIMUM SOIL PH
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OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.)

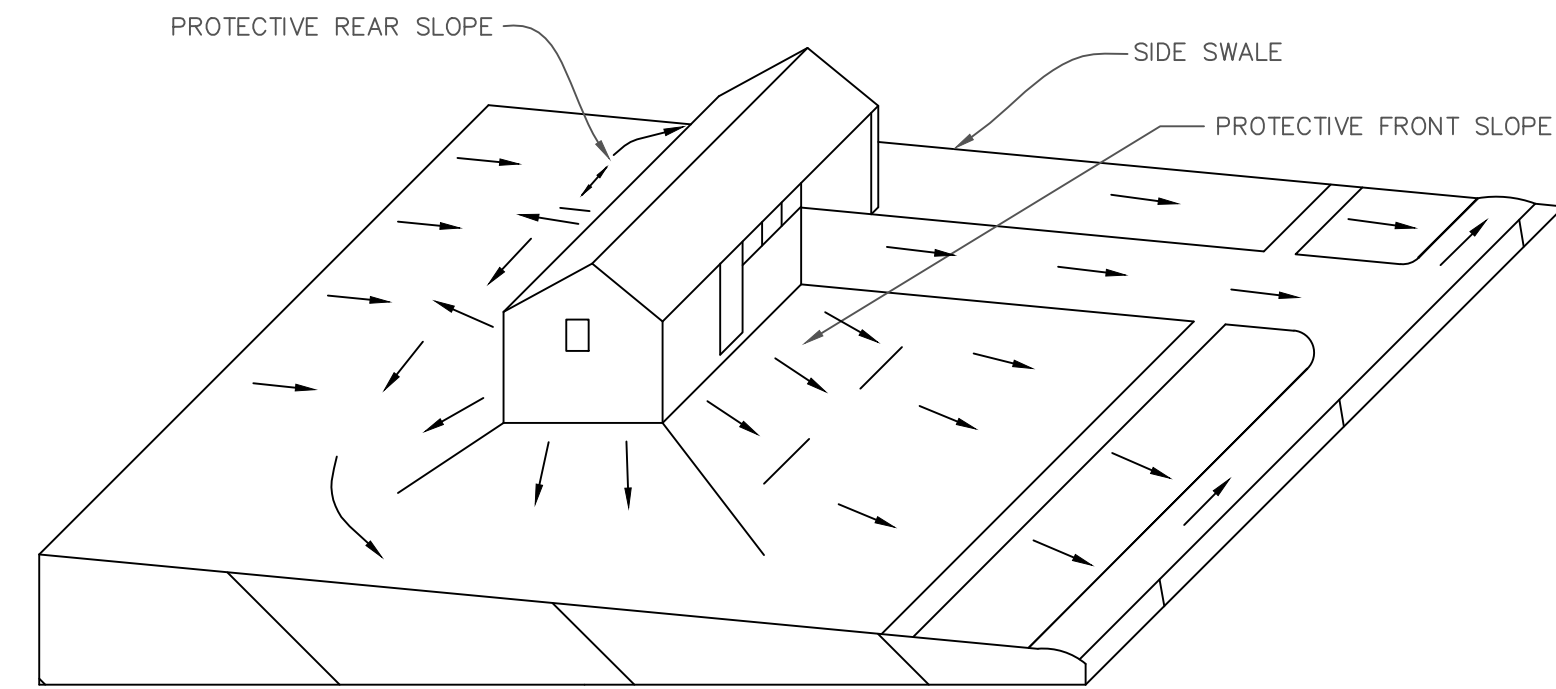
- | | | |
|--------------------------|------------|------------|
| 1. PERENNIAL RYEGRASS | 35-50 LBS. | 5.6 TO 7.0 |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |
| 2. KENTUCKY BLUEGRASS | 20 LBS. | 5.5 TO 7.5 |
| + SMOOTH BROMEGRASS | 10 LBS. | |
| + SWITCHGRASS | 3 LBS. | |
| + TIMOTHY | 4 LBS. | |
| + PERENNIAL RYEGRASS | 10 LBS. | |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |
| 3. PERENNIAL RYEGRASS | 15-30 LBS. | 5.6 TO 7.0 |
| + TALL FESCUE | 15-30 LBS. | |
| 4. TALL FESCUE | 35-50 LBS. | 5.5 TO 7.5 |
| + WHITE OR LADINO CLOVER | 1-2 LBS. | |

* FOR BEST RESULTS: (A) LEGUME SEED SHOULD BE INOCULATED; (B) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SPRING-SEEDED ALTHOUGH THE GRASS MAY BE FALL-SEEDED AND THE LEGUME FROST-SEEDED (PRACTICE 3.13); AND (C) IF LEGUMES ARE FALL-SEEDED, DO SO EARLY IN FALL.

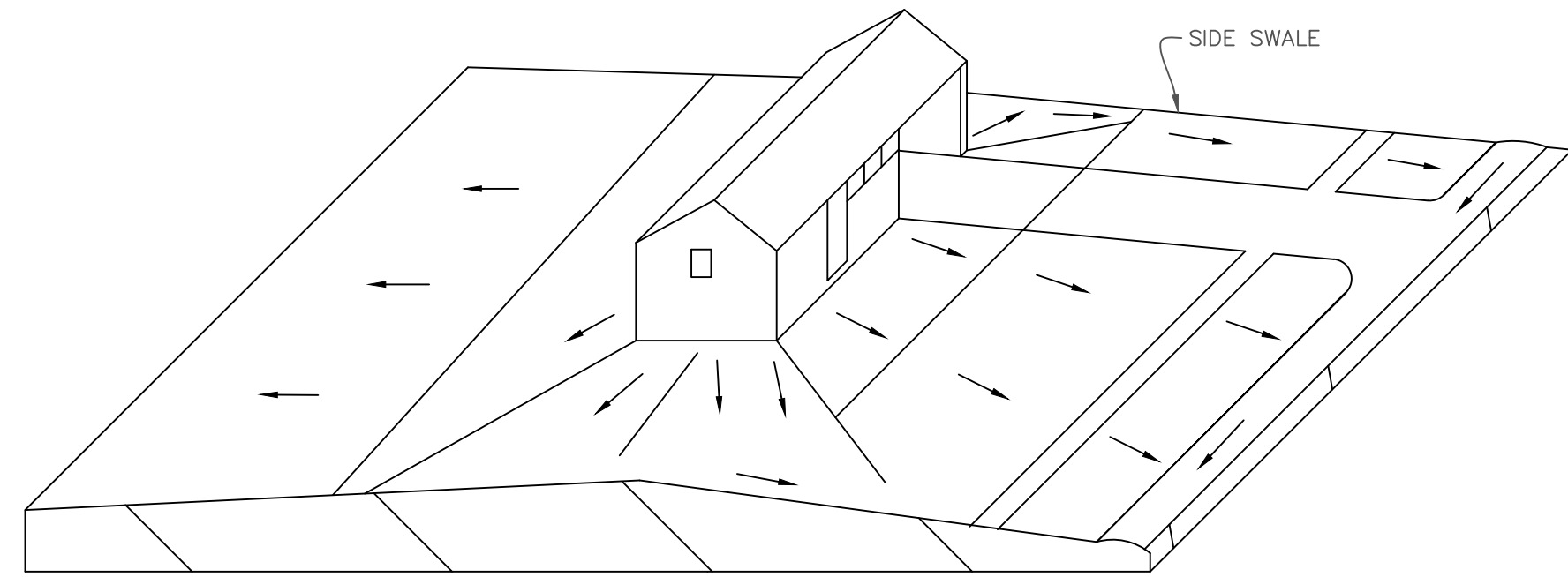
FERTILIZE:
ACCORDING TO SOIL TEST OR USE 600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

MULCH:
MULCH SHALL BE STRAW OR HAY. MATERIAL SHOULD BE DRY, UNCHOPPED FREE OF UNDESIRABLE SEEDS AND SPREAD BY HAND OR MACHINE. WOOD FIBER OR CELLULOSE MAY BE USED AND APPLIED WITH A HYDROMULCHER AND USE OF A TACKING AGENT.

STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED) AND CHANNELS AND AREAS OF CONCENTRATED FLOW REQUIRE ALTERNATE SEEDING AND MULCH ANCHORING METHODS. REFER TO INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS.

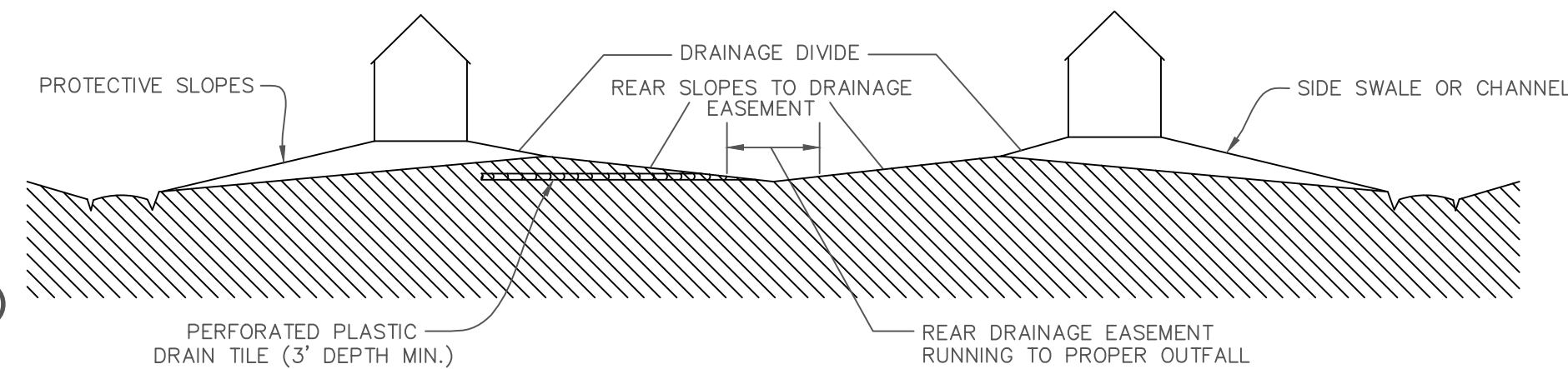


GRADING METHOD FOR LOT WHERE SLOPE IS FROM REAR TO FRONT LOT. DRAINAGE SWALES ARE LOCATED AT REAR AND SIDES OF DWELLING.



GRADING METHOD FOR LOT WHERE DWELLING IS LOCATED ON A RIDGE. DRAINAGE SWALES ARE LOCATED AT SIDE YARDS IN THE AREA OF POSITIVE SLOPES.

LOT DRAINAGE DETAIL (TYPICAL)
NOT TO SCALE



BACK TO BACK LOT SECTION DETAIL (TYPICAL)
NOT TO SCALE

GENERAL NOTES

- WHENEVER PROPRIETARY EQUIPMENT IS SPECIFIED, "OR APPROVED EQUAL" IS IMPLIED. ALL PROPOSALS FOR SUBSTITUTION SHALL BE SUBMITTED TO THE CITY IN WRITING FOR THEIR APPROVAL.
- PRIOR WRITTEN APPROVAL OF ENGINEER'S OFFICE FOR USE OF CAST IN PLACE OR MASONRY STRUCTURES.



DWN BY: AJB

DATE: 12/23/2014

SCALE: N.T.S.

CITY OF COLUMBUS
OFFICE OF CITY ENGINEER
123 WASHINGTON STREET
COLUMBUS, INDIANA 47201

SHEET TITLE:

STORM SEWER STRUCTURE,
DRAINAGE AND EROSION CONTROL
TYPICAL DETAILS AND NOTES

CERT.

SHEET:

OF:

JOB No.

DRG. No.

FILE: